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la re Rouffet

714, 717-19 (5th Cir. 1974). These factors govern fee petition analysis in the Fourth .2d 216, 226-28 (4th Cir.), cert. denied, 439 U.S. 934 (1978). The factors are: (1) time and labor expended; (2) novelty and difficul-ty of the questions raised; (3) the skill required to properly perform the legal services rendered; (4) the attorneys' opportunity cost in pressing the litigation; (5) the customary fee for like work; (6) attorneys' expectation fessional relationship between the attorney and client; and (12) attorneys' fees awarded Georgia Highway Express, Inc., 488 F.2d at the ourset of the litigation; (7) time litigations imposed by client or the circumstances of the case; (8) amount in controversy and community; (11) nature and length of proircuit. See Barber v. Kimbrell's, Inc., 577 reputation and ability of the attorneys; (10) the undesirability of the case within the legal in similar cases. In this case, only factors 1-3, the results obtained; (9) the experience 5, 7-9, and 12 are applicable.

In this case, the Court finds that it cannot with any real accuracy separate out work that was done as to SRFG and work that was done as to other defendants. Indeed, it would be unfair to SRFG for the Court to impose on it the attorneys' fees attributable to work directed to the other defendants, all of whom settled in full except for the BubBlocker defendants who settled as to the three Johansen patents and later prevailed on a motion for summary judgment of noninfringement as to the fourth patent. Apparently none of the settling defendants were required to pay their portion of the plaintiffs' attorneys' fees and costs.

With this litigation scenario in mind, the Court will assess the amount of attorneys' fees and costs to which it finds the plaintiffs are entitled. Plaintiffs assert that three attorneys took primary responsibility for the case. (1) Mr. Schiffey, who worked 781 hours and whose normal rates are \$280/hour; (2) Mr. Meece, who worked 2053.65 hours and whose normal rates are \$180/hour; and (3) Mr. Johnson, who worked 841.85 hours and whose normal rates are \$235/hour. The total number of hours billed by the law firm for work on the entire lawsuit is 7150.95.

The Court finds that the hourly rates charged by the various attorneys are reasonable in view of their levels of experience and in light of commensurate fees charged in Northern Virginia for similarly qualified counsel. (Factor 12) Patent law is a specialized area and requires special expertise; therefore, hourly rates are somewhat higher than those of general practitioners. (Factors 3, 5, and 9).

various approaches to hours unreasonable. Indeed, if the Court awarded plaintiffs are neys, the amount of that award would be \$786,171.75. The Court finds this amount to be excessive because it does not reflect the cept for SRFG settled; therefore, it would those other defendants, especially because SRFG did not even have counsel throughout because they did not take an aggressive approach to the litigation, demanded minimum fees sought for the work of these three attorfact that SRFG was only one of the many other defendants, and in particular the Blu-Blocker defendants, took the lead during the discovery and summary judgment phases of this litigation. In fact, the Court granted summary judgment in favor of the BluBlock-er defendants, and all other defendants exnot be appropriate to compensate the plaintiffs for the fees incurred for work directed at much of the pendency of this litigation and, The Court, however, finds the plaintiffs' defendants named in this action. Indeed, attention. (Factor 7).

Nevertheless, after the February 13, 1998, grant of summary judgment in favor of the BluBlocker defendants, the only remaining defendant was SRFG. Plaintiffs assert that the total amount of fees and costs incurred after February 13, 1998, through the trial is \$164,051.25, and because SRFG was the only remaining defendant throughout that period, 100% of those costs are attributable to SRFG. Rather than trying to apportion a percentage of pre-February 13, 1998, billings to SRFG and then to evaluate all post-February 13, 1998, billings to Ref and then to evaluate all post-which the Court usually does not award fees, such as two attorneys conferring, the court will award all of the post-February 13, 1998, fees fees that represent work done by the three lead counsed and none of the pre-February 13, 1998, fees.

The Court limits plaintiffs' award to that portion that represents the work of the three lead counsel because plaintiffs counsel submitted reducted records in support of the petition, making it impossible for the Court to determine what work was actually done and by whom. Accordingly, the Court will reduce the \$164,051.25 amount to \$130,643.75. The Court comes to this figure by multiplying the hours that the three lead attorneys worked, for the period after February 13, 1998, through the trial, by each attorneys hourly rate. The numbers used are as follows: (1) Schiffey: 185 hours at \$280/hour (\$51,800.00); (2) Meece: 286.25 hours at \$180/hour (\$51,52.00); (3) Johnson: 116.25 at \$23.5/hour (\$27,318.75). Thus, the three lead counsel billed \$87.5 hours for a total of \$130,643.75, which is approxi-

mately 80% of the total amount sought for that period.

neys fees is appropriate in this case in light of the Kimbrell's factors that apply. Preparation for the trial with respect to this particular defendant involved several pretrial motions, several raising complex factual questions, and the fast pace of this docket required an intense dedication of attorney time to the litigation. (Factors 1, 2 and 7) Moreover, the Court notes that plaintiffs counsel took the case on a contingent fee basis, which means that given the amount of the judgment, they will be made whole for all work expended in this case. We also point out that the actual trial was relatively short, partly as a result of the defendant's having so little evidence to present. Finally, in light of the damages awarded, \$130.643.75 is not an unreasonably high attorneys' fee. (Factor 8

With respect to costs, the Court finds it appropriate, for the same reasons discussed above. to award the plaintiffs the total amounts reflected only on the law firm's invoices dated March 26, 1998 (375,612.84) and April 9, 1998 (\$17,309.51), for a total award of \$54,922.35. This amount includes all costs incurred from February 23, 1998, to April 9, 1998.

### IV. Conclusion

For the reasons stated in open court and in this Memorandum Opinion, BR FG's Motion for Declaration of Mistrial and Motion for a JNOV or in the Alternative a New Trial will be denied. In addition, plaintiffs' Motion of Trebled Damages and Attorneys' Fees will be denied as to the trebled damages and granted as to the attorneys' fees and costs, and the Court will award plaintiffs \$130,643.75 in attorneys' fees and \$554,922.25 in costs. An appropriate order will issue.

The Clerk is directed to forward copies of this Memorandum Opinion to counsel of record.

#### SRDER

For the reasons stated in an accompanying Memorandum Opinion, SRFG's Motion for Declaration of Mistrial and Motion for a JNOV or in the Alternative a New Trial are DENIED, and plaintiffs' Motion for Trebled Damages and Attorneys' Fees is GRANTED IN PART as to attorneys' fees and costs and DENIED as to trebled damages, and it is hereby.

ORDÉRED that plaintiffs be and are awarded \$130,643.75 in attorneys' fees and

r \$54,922.35 in costs, for a total award of \$185,566.10.

The Clerk is directed to forward copies of this Order to counsel of record.

U.S. Court of Appeals Federal Circuit

No. 97-1492

In re Routlet

Decided July 15, 1998

#### ATENTS

## Patentability/Validity — Obviousness — Combining references (§115.0905)

through use of multiple fan-shaped beams, is Claimed low orbit satellite communications system for mobile terminals, which addresses problem of minimizing "handover" of receiver from beam footprint of one ence that teaches use of fan-shaped beam to minimization, and to extent it addresses handover problem at all, does so with orbit transmitting satellite to that of another three prior art references, since critical refertransmit from ground station to orbiting satellites does not specifically address handover selection rather than beam shape, and since lite motion, would have been motivated to not prima facie obvious over combination of there is no reason one of ordinary skill in art, seeking to minimize handovers due to satelcombine this reference with remaining references in manner that would render claimed invention obvious.

2. Patentability/Validity — Obviousness — Person · of ordinary skill in art. (§115.0902)

### Patentability/Validity — Obviousness — Combining references (§115.0905)

Three possible sources for motivation to combine prior art references in manner that would render claimed invention obvious are nature of problem to be solved, teachings of prior art, and knowledge of persons of ordinary skill in art; high level of skill in field of art cannot be relied upon to provide necessary motivation absent explanation of what specific understanding or technical principle, within knowledge one of ordinary skill in art, would have suggested combination, since, if such rote invocation could suffice to supply motivation to combine, more sophisticated scientific fields would rarely, if ever, experience patentable technical advance.

ordinary skill in art 3. Patentability/Validity - Obviousness -(§115.0902)

## Patentability/Validity - Obviousness Combining references (§115.0905)

Claimed low orbit satellite communications system for mobile terminals is not prima facie obvious over combination of two prior art references, even though person possessing high level of skill characteristic of this field would know to account for differences between claimed invention and prior art combination, since high level of skill in art, without more, cannot supply required motivation to combine references, and does not overcome absence of any actual suggesnot be upheld, even where skill in art is high, absent specific identification of principle, known to one of ordinary skill, that suggests tion to combine; obviousness rejection will claimed combination.

mark Office, Board of Patent Appeals and Appeal from the U.S. Patent and Trade-Interferences.

Patent application of Dénis Roulfet, Yannick Tanguy, and Frédéric Berthault, serial no. 07/888,791, filed May 27, 1992. From decision upholding examiner's final rejection of application as obvious under 35 USC 103(a), applicants appeal. Reversed. Richard C. Turner and Grant K. Rowan, of Sughrue, Mion, Zinn, Macpeak & Seas, Washington, D.C., for appellants.

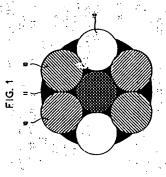
solicitor, U.S. Patent and Trademark Of-fice, Arlington, Va., for appellee. David J. Ball Jr., associate solicitor, Nancy J. Linck, solicitor, Albin F. Drost, deputy solicitor, Craig R. Kaufman, associate solicitor, and Scott A. Chambers, associate

Before Plager, circuit, judge, Archer, senior circuit judge, and Rader, circuit judge.

#### Rader, J.

Denis Rousfet, Yannick Tanguy, and Frederic Berthault (collectively, Rousfet) submitted application 07/888,791 (the application) on May 27, 1992. The Board of Patent Appeals and Interferences (the Board) affirmed final rejection of the application as obvious under 35 U.S.C. § 103(a). See Exparte Rousfet, No. 96-1553 (Bd. Pat. App. & Int. Apr. 16, 1997). Because the Board reversibly erred in identifying a motivation to combine the references, this court reverses.

use the same set of frequencies in order to use efficiently the limited radio spectrum. tion above the Earth's surface facilitates communications. These satellites project a number of beams to the Earth. Each beam on the Earth's surface. In order to provide complete coverage, adjacent footprints overtwo or more non-overlapping footprints can Figure 1 from the application shows the coverage of a portion of the Earth's surface stationary orbit remain over the same point on the Earth's surface. Their constant positransmits to its area of coverage, or footprint, lap slightly and therefore must use different frequencies to avoid interference. However provided by multiple cone shaped beams: Satellites in a geosynchronous or

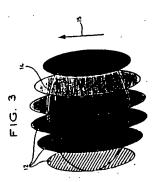


satellites in low Earth orbit. When viewed move overhead. A satellite's motion as it transmits a plurality of cone-shaped beams creates a new problem. The satellite's movement causes a receiver on the Earth's surface to move from the footprint of one beam into a lite: Eventually, the satellite's motion causes the receiver to move from the footprint of a congestion in geostationary orbits. To alleviate the orbit congestion problem, new telecommunications systems use a network of from a fixed point on the Earth's surface, such satellites do not remain stationary but second beam transmitted by the same satelbeam transmitted by one satellite into the footprint of a beam transmitted by a second satellite. Each switch from one footprint to another creates a "handover" event analocellular phone travels from one cell to anhave a limited ability to compensate for gous to that which occurs when a traditional other. Handovers are undesirable because reuse techniques, however Frequency

they can cause interruptions in signal transmission and reception.

47 USPQ2d

surface likely will remain within a single footprint until it is necessary to switch to surface. his arrangement reduces, but does not eliminate, handovers. Figure 3 from the particular. Rouffet eliminates handovers caused solely by the satellite's motion. To accomplish this goal, Rouffet changes the fire's antenna. Rouffet's satellites transmit fan-shaped beams. A fan beam has an ellipti-cal footprint. Rouffet aligns the long axis of satellite's motion across the Earth's surface. By elongating the beam's footprint in the direction of satellite travel, Rouffet's invenbeams transmitted by the same satellite. In another satellite. Because Rousfet's invention does not address handovers caused by the motion of the receiver across the Earth's application shows the footprints 12 from six beams aligned in the direction of satellite to reduce the number of handovers between shape of the beam transmitted by the satelhis beams parallel to the direction of the tion ensures that a fixed point on the Earth's Rouffet's application discloses technology motion 15:



secondary indicia of nonobviousness. See id.

stand or fall as a group. Claim 1 is The application contains ten claims that representative:

satellite provides isoflux coverage made up of a plurality of fan beams that are elon-A low orbit satellite communications system for mobile terminals, wherein the communications antenna system of each gate in the travel direction of the satellite.

claims as unpatentable over U.S. Pat. No. 5,199,672 (King) in view of U.S. Pat. No. 4,872,015 (Rosen) and a conference report 'he examiner initially rejected Rouffet's entitled "A Novel Non-Geostationary Satelmunications, 1981 (Ruddy). On appeal to lite Communications System," Conference Record, International Conference on Comthe Board, the examiner added an alterna-

tive ground for rejection, holding that the claims were obvious over U.S. Pat. No. 5,394,561 (Freeburg) in view of U.S. Pat. No. 5,170,485 (Levine).

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In re Rouffet

Board limited its opinion to that claim. The Board unanimously determined that the examiner had properly rejected claim 1 as obvious over King in view of Rosen and Ruddy. The Board, on a split voice, also affirmed the rejection over Freeburg in view On April 16, 1997, the Board issued its decision. Because Rouffet had specified that the claims would stand or fall as a group based on the patentability of claim of Levine.

section 103, an examiner must show an unrebutted prima facie case of obviousness. See In re Deuel, 51 F.3d 1552, 1557, 34 USPQ2d statutory requirements is entitled to a pat-24 USPO2d 1443, 1444 (Fed. Cir. 1992). On come a rejection by showing insufficient evi-1210, 1214 (Fed. Cir. 1995). In the absence an applicant who complies with the other appeal to the Board, an applicant can overdence of prima facie obviousness or by rebutting the prima facie case with evidence of To reject claims in an application under of a proper prima facie case of obviousness, ent. See In re Oeiiker, 977 F.2d 1443, 1445,

mination of obviousness as a question of law. See In re Lueders, 111 F.3d 1569, 1571, 42 USPQ2d 1481, 1482 (Fed. Cir. 1997). The reviews the Board's factual findings for clear error. See In re Zurko, 142 F.3d, 1447, 1449, 46 USPQ2d 1691, 1693 (Fed. Cir. 1998) (in banc); Leuders, 111 F.3d at 1571-72. "A finding is clearly erroneous arch Knitting Mach. Corp. v. Sulzer Morat GmbH, 139 F.3d 877, 881, 45 USPQ2d 1977, 1981 (Fed. Cir. 1998). This court mination in light of the entire record, an ousness rejection by showing that the Board ness or that the Board based its obviousness determination on incorrect factual predicates. This court reviews the ultimate deterfactual predicates underlying an obviousness of the prior art, the differences between the prior art and the claimed invention, and the when, although there is evidence to support it, the reviewing court on the entire evidence is left with the definite and firm conviction While this court reviews the Board's deterapplicant may specifically challenge an obvireached an incorrect conclusion of obviouslevel of ordinary skill in the art. See Mondetermination include the scope and content Graves, 69 F.3d 1147, 1151, 36 USPQ2d that a mistake has been committed.""

1697, 1700 (Fed. Cir. 1995) (quoting United States v. United States Gypsum Co., 333 U.S. 364, 395 [76 USPQ 430] (1948)). The secondary considerations are also es-

of nonobviousness includes copying, long felt but unsolved need, failure of others, see Graham v. John Deere Co., 383 U.S. 1, 17-18 [148 USPQ 459] (1966), commercial success, see In re Huang, 100 F.3d 135, 139-40, 40 USPQ2d 1685, 1689-90 (Fed. Cir. 1996), Larew Tackle, Inc., 119 F.3d 953, 957, 43 USPQ2d 1294, 1297 (Fed. Cir. 1997); Pen-lec. Inc. v. Graphic Controls Corp., 776 F.2d 309, 316, 227 USPQ 766, 771 (Fed. Cir. 1985), and skepticism of skilled artisans be-fore the invention, see In re Dow Chem. Co., 837 F.2d 469, 473, 5 USPQ2d 1529, 1532 (Fed. Cir. 1988). The Board must consider 1339, 1342, 41 USPQ2d 1451, 1454 (Fed. Cir. 1997); In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), licenses showing industry respect for the invention, see Arkie Lures, Inc. v. Gene invention, unexpected properties of the claimed invention, see In re Mayne, 104 F.3d determination of patentability is made on the entire record."); In re Piasecki, 745 F.2d 1468, 1472, 223 USPQ 785, 788 (Fed. Cir. Whether the evidence presented suffices to ultimate conclusion of obviousness and is mination. See In re Emerr, 124 F.3d 1458, 1462, 44 USPQ2d 1149, 1153 (Fed. Cir. 1997) ("Without Emert providing rebuttal evidence, this prima facie case of obviousness must stand."). This objective evidence 977 F.2d at 1445 ("An observation by the Board that the examiner made a *prima facie* case is not improper, as long as the ultimate 1984). The court reviews factual conclusions rebut the prima facie case is part of the all of the applicant's evidence. See Oetiker, sential components of the obviousness deterunexpected results created by the claimed drawn from this evidence for clear error therefore a question of law.

(Fed. Cir. 1987). Although the suggestion to combine references may flow from the na-Cir. 1996), the suggestion more often comes some teaching, suggestion, or motivation to combine the references. See In re Geiger, 815 F.2d 686, 688, 2 USPQ2d 1276, 1278 ture of the problem, see Pro-Mold & Tool Co. v. Great Lakes Plastics, Inc., 75 F.3d 1568, 1573, 37 USPQ2d 1626, 1630 (Fed. tance in a particular field, see Pro-Mold, 75 ion of prior art references, there must be cnces, see In re Sernaker, 702 F.2d 989, 994, 217 USPQ 1, 5 (Fed. Cir. 1983), or from the When a rejection depends on a combinaordinary knowledge of those skilled in the art that certain references are of special imporfrom the teachings of the pertinent refer

Delta Resins & Refractories, Inc., 776 F.2d 281, 297 n.24, 227 USPQ 657, 667 n.24 (Fed. Cir. 1985)). Therefore, "[w]hen deterdesirability, and thus the obviousness, of making the combination." See In re Beautie, 974 F.2d 1309, 1311-12, 24 USPQ2d 1040, 1042 (Fed. Cir. 1992) (quoting Lindemann Maschinenfabrik GmbH v. American Hoist & Derrick Co., 730 F.2d 1452, 1462, 221 USPQ 481, 488 (Fed. Cir. 1984)). mining the patentability of a claimed inven-"the question is whether there is something in the prior art as a whole to suggest the F.3d at 1573 (citing Ashland Oil, Inc. v. tion which combines two known elements,

asserted by the examiner are in the same field of endeavor as the invention. The parerred by improperly combining references to render the claimed invention obvious. ties also agree that the pertinent level of skill tions systems — is high. On appeal, Rouffet The parties agree that the five references asserts that the examiner and the Board in the art — design of satellite communica-

# The Combination of King, Rosen, and Ruddy

axes oriented in an east-west direction to The Board first affirmed the rejection of uses a plurality of fan beams with their long communicate with mobile and fixed termi-Rosen, and Ruddy. King discloses a system or launching a plurality of satellites into low Rosen teaches a geostationary satellite that Rouffet's claims over a combination of King, Earth orbits from a single launch vehicle nals on the Earth.

sent from a ground station over a wide area. Ruddy teaches the use of a series of satellites the sky when viewed from a fixed point on the ground. Viewed from the Earth, the orbital path includes a narrow, elliptical apouses a series of satellites to retransmit signals in Molniya orbits. A satellite in a Molniya orbit always follows the same path through gee loop. In order to transmit to these moving long axis of the orbit's apogee loop. This in the footprint of the beam and eliminates the need for the ground station's antenna to The final, and most important, reference in this combination is Ruddy. Ruddy describes a television broadcast system that Rather than using a geostationary orbit, satellites from a ground station, Ruddy uses a fan beam with a long axis aligned with the alignment places the entire apogee loop withtrack the satellite's motion around the apogee loop. Ruddy further teaches orbit param-

eters and spacing of multiple satellites to ensure that a satellite is always in the loop to receive and rebroadcast signals from the Earth station.

In re Rouffet

Board, the use of "a plurality of fan beams that are elongate in the travel direction of the satellite." Ruddy, however, is different from the claimed invention in several respects. geometrical shape of the beams 12 is changed: instead of being circular they are now elongate ellipses."). The application's minimize handovers. See id. at lines 11-16 ("This considerably increases call durations between handovers."). King and Rosen together teach the use of a network of satellites in low Earth orbit. art mosaic that shows, in the reading of the jection of multiple elliptical fan-shaped foot-prints from the satellite to the ground. See Claim 1, supra, see also Application at 6, lines 9-11 ("In addition, in this system, the written description further teaches that the Thus, Ruddy becomes the piece of the prior Specifically, the application claims the proinvention's fan-shaped satellite beams will

differences are evident: the application teaches projection of multiple beams from a satellite to the Earth, while Ruddy teaches projection of a single beam from the Earth to In contrast, Ruddy teaches that a ground station may use a single fan-shaped beam to transmit to a satellite in a unique Molniya orbit. The ground station transmits a beam into which a series of satellites in Molniya orbits will successively enter. At least two satellites. Moreover to the extent Ruddy contains a teaching about handovers, its teachings focus on use of the unique Moiniya orbit to ensure that a satellite always falls within the beam transmitted by the ground station. These differences suggest some difficulty

in showing a prima gate case of obviousness.

The Board, however, specifically found that artisans of ordinary skill in this field of art would know to shift the frame of reference from a ground station following a satellite to a satellite transmitting to the ground. According proper deference to the Board's finding of a lofty skill level for ordinary artisans in this field, this court discerns no clear error ences would not preclude a finding of obvi-ousness. While Ruddy does not expressly this art. Therefore, the Board did not err in and Ruddy contains all of the elements in the Board's conclusion that these differteach alignment of the fan beam with the apparent direction of the satellite's motion, this court perceives no clear error in the Board's determination that Ruddy would finding that the combination of King, Rosen, suggest such an alignment to one of skill claimed in Rouffet's application.

dy with Rosen and King in a manner that would render the claimed invention obvious. have been motivated to combine these references in a manner that rendered the claimed invention obvious. Indeed, the Board did not identify any motivation to choose these refercifically address handover minimization. To the extent that Ruddy at all addresses handovers due to satellite motion, it addresses this subject through the selection of orbital parameters. Ruddy does not teach the choice of a particular shape and alignment of the beam projected by the satellite. Thus Ruddy addresses the handover problem with an orbit selection, not a beam shape. The Board provides no reasons that one of ordinary skill in this art, seeking to minimize handovers ences for combination. Ruddy does not spedue to satellite motion, would combine Rud

Obviousness is determined from the vanordinary skill in the art to which the patent pertains. See 35 U.S.C. § 103(a). This legal construct is akin to the "reasonable person" invention are available to this hypothetical skilled artisan. See In re Carlson, 983 F.2d 1032, 1038, 25 USPQ2d 1207, 1211 (Fed. tage point of a hypothetical person having used as a reference in negligence determinations. The legal construct also presumes that all prior art references in the field of the Cir. 1993

[inventions] are combinations of old elements. Environmental Designs, Ltd. v. Union Oil Co., 713 F.2d 693, 698, 218 USPQ 865, 870 (Fed. Cir. 1983); see also Richdel, Inc. v. Sunspool Corp., 714 F.2d 1573, 1579-80, 219 USPQ 8, 12 (Fed. Cir. 1983) ("Most, if not all, inventions are combe "an illogical and inappropriate process by which to determine patentability." Sensonics, Inc. v. Aerosonic Corp., 81 F.3d 1566, 1570, 38 USPQ2d 1551, 1554 (Fed. Cir. Therefore an examiner may often find every art. If identification of each claimed element in the prior art were sufficient to negate patentability, very few patents would ever issue. Furthermore, rejecting patents solely by finding prior art corollaries for the claimed elements would permit an examiner to use the claimed invention itself as a blueprint for piecing together elements in the prior art to defeat the patentability of the claimed invention. Such an approach would As this court has stated, "virtually all element of a claimed invention in the prior binations and mostly of old elements.")

5 the invention to defeat patentability of the invention, this court requires the examiner to To prevent the use of hindsight based

1996).

Ξ

Champagne Louis Roederer S.A. v. Delicato Vinevards

show a motivation to combine the references that create the case of obviousness. In other words, the examiner must show reasons that the skilled artisan, confronted with the same problems as the inventor and with no knowledge of the claimed invention, would select the elements from the cited prior art references for combination in the manner

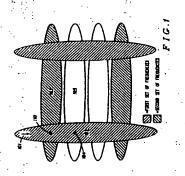
edge of persons of ordinary skill in the art. In this case, the Board relied upon none of level of skill in the field of art. If such a rote application, invoke the lofty level of skill, and rest its case for rejection. To counter this [2] This court has identified three possible differences between the claimed invention and the selected elements in the references, it relied upon the high level of skill in the art to derstanding or technological principle within the knowledge of one of ordinary skill in the entific fields would rarely, if ever, experience patentable technical advance. Instead, in routinely identify the prior art elements in an potential weakness in the obviousness construct, the suggestion to combine requirehindsight analysis and rote application of the sources for a motivation to combine referlevel of skill in the art to overcome the provide the necessary motivation. The Board did not, however, explain what specific un-Instead, the Board merely invoked the high invocation could suffice to supply a motivation to combine, the more sophisticated scicomplex scientific fields, the Board could ment stands as a critical safeguard against ences: the nature of the problem to be solved the teachings of the prior art, and the knowl-Rather, just as it relied on the high art would have suggested the combination legal test for obviousness.

1991). Lacking a motivation to combine references, the Board did not show a proper prima facie case of obviousness. This court invention to make the combination, this This court forbids the use of hindsight in the specific understanding or principle within the knowledge of a skilled artisan that would motivate one with no knowledge of Rouffet's court infers that the examiner selected these selection of references that comprise the case obviousness. See In re Gorman, 933 F 2d reverses the rejection over the combination Because the Board did not explain the ferences with the assistance of hindsight. 982, 986, 18 USPO2d 1885, 1888 (Fed. Cir. King, Rosen, and Ruddy.

# The Combination of Freeburg and Levine

Freeburg teaches a cellular radiotelephone system based on a constellation of low Earth orbit satellites that use conical beams

and mobile Earth stations. Levine teaches an Earth-based cellular radio system that uses Levine's elliptical footprints are aligned with the road grid. To increase the capacity of frequency reuse techniques, Levine teaches Figure 1 of the Levine patent illustrates its to transmit from the satellite to both fixed the use of antennas that broadcast signals with smaller footprints than the prior art system. Thus, Levine actually increases the fan beams broadcast from antenna towers. traditional ground-based systems through number of overlap regions between cells and, hence, the number of potential handovers. alignment of beam footprints:



rithms to determine which of the cells is bile unit. These algorithms then select this tersecting cells in the event that the mobile As a mobile unit (e.g., a driver using a car phone) moves though a succession of overcell for use while continually monitoring inlapping zones. Levine uses selection algoaligned with the travel direction of the mounit changes direction.

differences between the teachings of the aption. The critical Levine reference again inany reference to the "travel direction of [a] plication and the Levine-Freeburg combinasatellite." Moreover, Levine actually multisessing the lofty skills characteristic of this ences between the claimed invention and the Once again, this court notes significant plies the number of potential handovers and the Board explains the reasons that one posfield would know to account for the differprior art combination. This court discerns no volves a beam from an Earth station without then uses software to sort out the necessary handovers from the unnecessary. However clear error in that reliance on the consider able skills in this field.

burg. In determining that one of skill in the art would have had motivation to combine Levine and Freeburg, the Board noted that "[t]he level of skill in the art is very high." As noted before, this observation alone cannot supply the required suggestion to combine these references. The Board posits that the high level of skill in the art overcomes the absence of any actual suggestion that one could select part of the teachings of Levinc or combination with the satellite system [3] This court does, however, discern reversible error in the Board's identification of motivation to combine Levine and Freedisclosed by Freeburg.

As noted above, the suggestion to combine the inquiry for a suggestion to combine, a lofty level of skill alone does not suffice to Richdel, 714 F.2d at 1579; Environmental Designs, 713 F.2d at 698. Therefore, even USPQ2d 1030 (Fed. Cir. 1997) (explaining that the Board's opinion must describe the nary skill in the art would have been motivated to select the references and to combine invention requirement is a safeguard against the use of hindsight combinations to negate patentability. While the skill level is a component of supply a motivation to combine. Otherwise a high level of ordinary skill in an art field would almost always preclude patentable inventions. As this court has often noted, invention itself is the process of combining when the level of skill in the art is high, the Board must identify specifically the principle, known to one of ordinary skill, that basis for its decision). In other words, the Board must explain the reasons one of ordiprior art in a nonobvious manner. See, e.g., Gechter v. Davidson, 116 F.3d 1454, 43 suggests the claimed combination. them to render the claimed USPQ2d 1030 (Fed. Cir. 1997)

tion to combine part of Levine's teachings The Board's naked invocation of skill in tion of Rouffet's claim over these references the art to supply a suggestion to combine the references cited in this case is therefore clearly erroneous. Absent any proper motivawith Freeburg's satellite system, the rejecwas improper and is reversed.

The Board reversibly erred in determining vious. Because this predicate was missing in that there was a motivation to combine ei-ther the teachings of King, Rosen, and Rudeach case, the Board did not properly show that these references render the claimed invention obvious. Therefore this court redy or of Freeburg and Levine in a manner that would render the claimed invention ob-

rejection of Rouffet's claims. In light of this disposition, Rouffet's pending motion to remand the case to the Board for further converses the Board's decision upholding the sideration is denied as moot.

#### COSTS

Each party shall bear its own costs.

REVERSED.

#### U.S. Court of Appeals Federal Circuit

Champagne Louis Roederer S.A. v. Delicato Vineyards

No. 98-1032

Decided July 16, 1998

## TRADEMARKS AND UNFAIR TRADE PRACTICES

Likelihood of confusion - Particular Infringement; conflicts between marks — 20 Confusion (§335.0304.05) marks

## infringement; conflicts between marks -Tests generally (§335.06)

mark for wine and opposer's "Cristal" marks not err in dismissing opposition proceeding on ground that applicant's "Crystal Creek" for champagne are dissimilar with respect to mercial impression, since board did not err in gle factor may be dispositive in likelihood of confusion analysis, especially when that factor is dissimilarity of marks, and since no instances of clear error regarding board's Trademark Trial and Appeal Board did appearance, sound, significance, and comevaluating likelihood of confusion, since sinfindings of fact as to dissimilarities of marks relying solely on dissimilarity of marks have been demonstrated Appeal from the U.S. Patent and Trademark Office, Trademark Trial and Appeal

in opposition to application filed by Delicato for wine. From dismissal of opposition pro-ceeding, opposer appeals. Allirmed, Michel, brought by Champagne Louis Rocderer S.A. Vineyards to register mark "Crystal Creek" (Opposition No. J., concurring in separate opinion. Proceeding

38 USPQ2d

## THE PUBLIC INTEREST

preliminary injunctive relief in order to halt confusion in the marketplace. Worthington Foods, Inc., 732 F.Supp. 1463. In the present case, confusion has been shown to America has logged numerous telephone calls from its radio listeners who are conwho are confused as to who is conducting the "Moondog Coronation Ball." (See Exhibits I, Y and Z). The final factor to consider when assessing he desirability of injunctive relief is the public interest. In a case such as the present, public policy concerns weigh in favor of words "Moondog Coronation Ball." Omnifused as to who is conducting the "Moondog Coronation Ball." (See Exhibit Q) It has also received letters and facsimiles from listens exist regarding the Defendants' use of the

shown a likelihood of confusion. Thus, this Court finds that injunctive relief would be in This Court finds that OmniAmerica has the public's best interest.

The Court has adopted in part the Find-ings of Fact and Conclusion of Law submited by Plaintiff

## FINDINGS OF FACT

of registration for Moondog Coronation Ball Plaintiff, Omni America holds a certificate II that was issued in 1986.

for Moondog Coronation Ball II through OmniAmerica acquired the registration assignment.

held in 1952 in Cleveland and is reputed to be the first rock and roll concert. The first Moondog Coronation Ball

used by anyone in connection with a The name Moondog Coronation Ball

concert or other event until 1986.
In 1986, the radio station WMMS-FM
decided to hold a concert to rally support for
bringing the Rock and Roll Hall of Fame to John Gorman, who worked at WMMS-FM at that time, conceived the idea to call the concert the Moondog Coronation Cleveland.

Ball and feature some performers from the State in order to protect their rights to the WMMS-FM was owned by Malrite Communications in 1986 and that Malrite registered the name Moondog Coronation Ball II as a service Mark with the Ohio Secretary of

next Moondog Coronation Ball when the Rock and Roll Hall of Fame was opened in WMMS-FM had plans to hold the Cleveland.

992. The concert was to commemorate the 40th anniversary of the original concert and was promoted through WMJI-FM. Coronation Ball was held on March 21 called next concert

for WMJI and the parties entered into a contract for the production of the Mondog Coronation Ball. Canterbury agreed to produce the concert

sold tickets, and collected the proceeds from the ticket sales. Both WMJI-FM and Canterbury were active in choosing the talent for the show and deciding the logistics for the WMJI-FM promoted and hosted the concert. Canterbury contracted with the artist,

WMJI-FM held the Moondog Coronation Ball again in 1993, 1994, and 1995. Canter-bury was the production company each of

WMJI-FM was using the Mark Moondog those years.

Coronation Ball with the consent and ap-OmniAmerica acquired WMJI-FM in 1994, around the same time that it acquired proval of the owner of the registration for the the assignment of the registration for the Mark.

In 1996, Canterbury knew that Omni-

America owned the registration for Moon-Canterbury and WDOK-FM/WRMR dog Coronation Ball II

AM are using the service mark Moondog Coronation Ball in connection with an oldies concert scheduled to take place in Cleveland on March 23, 1996

WMJI-FM and expressed confusion over the origin and sponsorship of the concert sched individuals uled for March 23, 1996. Numerous

### CONCLUSION

Mark; the registrant asserts exclusive rights Rights to the service mark are acquired through use. A registration is evidence that: the registrant had first use of the to the service mark; and, the registrant has put the public on notice of its assertion of exclusive rights to the service mark. In the Encroachment on a strong service mark present case, OmniAmerica holds a fanciful service mark. This is a strong service mark. tends to produce the greatest likelihood of service mark for an identical service in the confusion, establishes likelihood of confuconfusion. An intentional use of a fanciful same market area, combined with actual

In the case at bar, the likelihood of confusion with the service mark Moondog Corona-

ther, the public interest is served by a Pre-liminary injunction that prevents consumer confusion. By promoting a concert in Ohio tion Ball may result in irreparable harm for purposes of entitlement to a Preliminary Inunction. The potential harm to the apparent infringer, the Defendants, does not weigh against the granting of injunctive relief. Furusing Moondog Coronation Ball, the Defendants have used Plaintiff's service mark is infringing Plaintiff's rights in the service mark. Therefore, Omni America is entitled to without Plaintiff's permission in a way that

dba Canterbury Productions/Farag Music BMI, the Moondog Coronation Ball Corp., and Independent Group Limited Partnerassociated with or acting in concert with using the service mark "Moondog Coronation Ball" or any similar service mark in Use of a Mark that includes the words "Moondog" and "Coronation" in connection ship, their agents, and any other persons them, including but not limited to, Henry Farag and Canterbury Productions, Inc., be and hereby are restrained and enjoined from connection with any concert or other event. with a concert or other event will be consida Preliminary Injunction.

IT IS THEREFORE ORDERED the Defendants Street Gold Records, ered to be use of a similar mark.

Specifically, Defendants, their agents, and any other persons associated with or acting in concert with them, including, but not limited to Mr. Henry Farag, Mr. Omar Farag, and Canterbury Productions, Inc. are enjoined from:

) selling, issuing, or releasing any tickets bearing the service mark Moondog Coronation Ball or any similar mark;

Defendants, using the service mark Moon-dog Coronation Ball or any similar service or any other concert or event produced by issuing any written or oral promotion of the concert scheduled for March 23, 1996,

 making any representations that the concert scheduled for March 23, 1996, or any other concert or event produced by Defendants, is the Moondog Coronation

### CONCLUSION

taining to damages, and any issues relating to the expiration of the service mark that expires on March 10, 1996, will be addressed at the Permanent Injunction Hearing which OmniAmerica's Motion for a Preliminary Injunction is GRANTED. All matters per-Based upon the forgoing reasons, Plaintiff

will be held at a later date to be determined by this Court.

IT IS SO ORDERED

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Sensonics Inc. v. Aerosonic Corp.

## U.S. Court of Appeals Federal Circuit

Sensonics Inc. v. Aerosonic Corp.

Nos. 95-1058, -1062, -1098 Decided April 24, 1996

#### PATENTS

## 1. Patentability/Validity — Obviousness — Combining references (§115.0905)

Claimed vibrator for aircraft instruments on hindsight knowledge of patented inven-tion, when prior art does not contain or is not obvious in view of prior art references considered alone or in combination, since there is no teaching or suggestion whereby person of ordinary skill in art would have been led to select particular mechanical and electrical structures and concepts and combine them as did inventor, and since drawing suggest that knowledge, is improper use of invention as template for its own reconstruc-

### - Fraud or unclean bands (§120.1111) 2. Infringement - Defenses

dant's failure to mention prior patent in its during prosecution of patent in suit did not constitute inequitable conduct, since defenrequest for re-examination of patent in suit weighs heavily against its contention that prior patent was material prior art, and since Failure to disclose inventor's prior patent there is no evidence of culpable intent.

## 3. Infringement - Willful (§120.16)

continued even after validity of patent was infringe vibrator patent in suit, even though opinion of defendants' counsel does not mention defendants' copying and other objective indicia of unobviousness, and infringement confirmed on re-examination, since issue of willfulness raises questions of credibility as well as weight, and findings thereon are not readily reversed, and since infringement oc-Federal district court did not clearly err by concluding that defendants did not willfully curred four months prior to patent's expira-

#### REMEDIES

#### Damages - Patents -Lost profits (§510.0507.05) ļ 4. Monetary

represents best available reconstruction of infringing activity, but court's reduction of extrapolated production by 33 percent to account for device repair or inefficiency in rise to strong inference that such records Infringement defendant's failure to retain production records during litigation gives since it is not necessary to establish bad faith "purposeful" action, and since it is appropriate that doubt be resolved against defendant records of acts for which infringement had been charged; federal district court's determination that 7,347 infringing units had been produced by defendant, based on exwould have been unfavorable to defendant, in order to draw adverse inference from in view of clear duty to keep and preserve able for final six months of patent's term, trapolation from production records availproduction is not supported by evidence.

# 5. Monetary — Damages — Patents — Increased damages (§510.0507.07)

Federal district court did not abuse its discretion by declining to award enhanced damages for patent infringement, since enhanced damages are punitive rather than compensatory, and depend on showing of willful infringement or other indicium of bad faith warranting punitive damages, and since court's finding that intringement was not willful was not clear error.

## 6. Monetary - Damages - Prejudgment interest (§510.0511)

Prejudgment interest in patent cases is withheld only under exceptional circum-stances, and denial of such award based on there is no circumstance that would make calculation difficulties alone is error; prejudgment interest award is therefore warranted in present patent action in which such award unfair or inappropriate.

### Patents - Exceptional case 7. Monetary - Attorneys' fees; costs (§510.0905.03)

only criteria whereby case may be deemed "exceptional," since litigation misconduct and unprofessional behavior are relevant to case for determination of whether there was Bad faith and willful infringement are not award of attorneys' fees; remand of present bad faith or vexatious behavior is therefore warranted, even though federal district court did not err in concluding that defendants did not willfully infringe.

#### PATENTS

# 8. Infringement - Inducement (§120.15)

### REMEDIES

## Monetary — Damages — Personal liabil. ity of corporate officials (§510.0513)

that individual defendant who was founder, owner, president, chief executive officer, and chief of engineering of infringing corporation is liable for inducement to infringe, and is jointly and severally liable for amount of ue production of infringing device after be-coming aware of plaintiff's patent rights, and since court therefore did not clearly err in judgment, since weight of evidence is strong-ly contrary to defendant's testimony that he determining that testimony was not credible. Federal district court properly concluded was without authority to control or discontin-

### Particular patents - Electrical - Tapping device

3,863,114, DeMayo, tapping device for generating periodic mechanical impulses, ruling that patent is enforceable, not invalid, and infringed is affirmed.

Action by Sensonics Inc. against Aerosonic Corp. and Herbert J. Frank for patent claims are enforceable, not invalid, and infringed, and that defendant Herbert J. Frank is personally liable for inducing inpatent Affirmed in part, modified and reversed in Appeal from the U.S. District Court for the Middle District of Florida, Merhige, J. fringement, defendants appeal. Plaintiff cross-appeals measure of damages and denial of enhanced damages and attorneys' fees. infringement. From ruling that

Daniel P. Burke, of Galgano & Burke, Hauppauge, N.Y., for plaintiff/crosspart, and remanded. appellant.

Robert E. Greenstien, of Honigman, Miller, Schwartz & Cohn, West Palm Beach, Fla.; Anne E. Brookes, John T. Klug, Louis K. Bonham, and John G. Flaim, of Honigman, Miller, Schwartz & Cohn, Houston, Texas; Robert W. Boos and Kevin M. Gilhool, of Honigman, Miller, Schwartz & Cohn, Tampa, Fla., for defendant-appellant Aerosonic Corp.

Sybil Meloy, Lisa S. Mankofsky, and Patricia D. Granados, of Foley & Lardner, Washington, D.C., for defendant-appellant Herbert J. Frank.

Before Newman, circuit judge, Bennett, senior circuit judge, and Bryson, circuit

# Sensonics Inc. v. Aerosonic Corp.

Newman, J.

**38 USP**Q2d

bert J. Frank, each appeals certain aspects of the judgment of the United States District Court for the Middle District of Florida.' and also appeals the ruling of infringement as to some of the patent claims but not as to others. Mr. Frank appeals the ruling that he appeals the measure of damages, and the (the '114 patent) owned by Sensonics, Inc. Aerosonic appeals the district court's ruling concern United States Patent No. 3,863,114 The defendants. Aerosonic Corp. and Herthat the '114 patent is valid and enforceable, is personally liable for inducement to infringe the Sensonics patent. Sensonics crosscourt's denial of enhanced damages and at-This consolidated appeal and cross-appeal

## THE PATENTED INVENTION

orney fees.

founder and officer of Sensonics. The tapping device, also called a "vibrator," is used primarily with aircraft instruments having moving indicators. Mechanical pulses, that is, taps, gently vibrate the moving parts in order to free them of the effects of static friction, permitting the indicator to move freely and thus with greater accuracy and reliability. Such devices require accurate and reliable operation for extended periods for Generating Periodic Mechanical Pulses," inventor John F. DeMayo. Mr. DeMayo is a of time and over wide temperature and voltage ranges. They require careful control of the strength of the vibration pulses in order to avoid causing errors in or requiring recalibration of the aircraft instrument. The '114 patent is for a "Tapping Device

The invention claimed in the '114 patent is an electromagnetic vibrator that is easier to manufacture, more accurate, easier to adust, and less expensive than prior devices. Its structure of a unitary base with integrally formed anvil and armature support eliminated the welding and soldering steps of earlier devices, and also assured a true and consistent path for the magnetic flux. Another advantageous structural component is the adjustment element for the strength of the vibration pulses, in the form of a screw which extends through the armature to the magnetic core. The head of the screw provides the stop for the moving armature, and thus adustment of the screw enables ready adjust'Sensonics, Inc. v. Aerosonic Corp., Nos. 90-84-T-23A and 93-724- T-23A (M.D. Fla. Oct. 11 and Nov. 4, 1994).

moving the device from its casing, a disadment of the mechanical pulses without revantage of prior vibrators.

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testified that the vibrating-reed design was of the strength of the mechanical pulses. The the Sensonics device in complete detail, and high failure rate after installation, and was It was not disputed that Aerosonic copied replaced the vibrating-reed design of the vimercially. Mr. Frank and other witnesses hard to manufacture, had an unacceptably deficient in that it did not allow adjustment superiority of the Sensonics device in accurabrator that Aerosonic was then making comcy, reliability, and cost, was undisputed.

## PATENT VALIDITY

invalidity based on obviousness in terms of 35 U.S.C. § 103. The principal prior art at trial was an earlier invention of Mr. De-3,507.339 (the '339 patent). This patent was Aerosonic raised the defense of patent Mayo, described in United States Patent No. not cited as a reference during prosecution of the application that led to the '114 patent.

improved mechanical vibrator. There was evidence that the '339 design had some advantages over prior devices. but that its shortcomings included manufacturing comembodied in the '114 device achieved the simplicity and efficiency of manufacture, easy and accurate adjustment, compactness, quietness in operation, and reliability, that were inadequate in the '339 device.

The '339 device has a screw extending represented an earlier effort to make un difficulty of assembly, difficulty of adjust-ment, and too high a failure rate. Mr. De-Mayo testified that he continued to work to solve these problems, and that after several additional years of effort he succeeded in larities, there was evidence that the changes Mr. DeMayo testified that the '339 patent plexity, increased size, multiple components, doing so, with the vibrator that became the subject of the '114 patent. Although the '114 design and the '339 design have several simi-

trial Aerosonic argued that it was obvious to make the design change of an adjustable nificant advantages and remedied deficiencies of prior devices. The pulse strength for the '339 device was only adjustable from to ensure magnetic flux, and is not usable to adjust the strength of the pulses. Although at through the armature to the magnetic core. This screw is soldered into place in order to provide sufficient contact within the device screw, the district court observed that this element of the '114 invention provided sigSensonics Inc. v. Aerosonic Corp.

P

underpinnings of the determination of obvithe testimony of Acrosonic's expert witness concerning the prior art. In addition to the trol secondary signals, and a patent for an The district court referred to the factual ousness as set forth in Graham v. John Deere '339 patent, the references relied on by Aerodesigned to absorb any shock created by contact of its armature and magnetic core, a patent on a relay for telephone lines to con-Co., 383 U.S. 1, 148 USPQ 459 (1966). Applying these criteria, the court discussed were two patents on "telegraphsounders" that were designed to make noise, patent on a magnetically operated switch

automobile voltage regulator.
[1] The district court concluded that "[c]onsidered in their entirety, the references discussed by defendants' expert do not, in the court's view, lead one of ordinary skill in the art to the invention in suit." We agree There is no teaching or suggestion whereby a person of ordinary skill would have been led to select these mechanical and electrical W.L. Gore & Assoc. v. Garlock, Inc., 721 F.2d 1540, 1553, 220 USPQ 303, 312-13 (Fed. Cir. 1983). The invention must be viewed not after the blueprint has been structures and concepts and combine them as did DeMayo in the '114 invention. To draw on hindsight knowledge of the patented that the references, alone or in combination, do not make obvious the '114 invention. tain or suggest that knowledge, is to use the struction - an illogical and inappropriate drawn by the inventor, but as it would have been perceived in the state of the art that invention, when the prior art does not coninvention as a template for its own reconprocess by which to determine patentability. existed at the time the invention was made Interconnect Planning Corp. v. Feil, 774 F.2d 1132, 1138, 227 USPQ 543, 547 (Fed.

The DeMayo '114 device was placed in tors from Budd Electronics Corp. An Aerocommercial production by Sensonics. Aerosonic purchased fifty of the Sensonics vibrainstructed by Mr. Frank to copy every detail of the Sensonics device, mentioning the number of turns of wire in the electromagnet and testified that he engineer

Mr. Frank and other employees of Aerosonic testified that there were no acceptable substitutes in the industry for the DeMayo '114 the wire thickness, the tension of the spring, the posts supporting the armature, the unitary construction, the adjustable screw, etc. vibrator design.

Patent invalidity must be proved by clear and convincing evidence. The differences the inadequacies of prior vibrators including DeMayo's earlier '339 design, and the technologic advantages and commercial success on obviousness had not been proved. The of the '114 invention, well support the district court's conclusion that invalidity based from the prior art that were shown at trial, decision that the patent is valid is affirmed.

## PATENT ENFORCEABILITY

DeMayo '339 patent. The district court held evidence presented at trial of Sensonics' good faith. The court also observed that Aerosontice the relevance of the '339 patent, and that the '339 patent was not cited by Aerosonic in Aerosonic charged Sensonics with inequitable conduct before the Patent and Trademark Office because Sensonics did not bring that the intent element of inequitable conits reexamination request which was made during the litigation, and for which the litito the attention of the patent examiner the duct had not been shown, and referred to the ic's own patent counsel did not initially no-

or 7. Thus the only infringement issue is Sensonics's cross-appeal of the district

court's finding that Aerosonic's infringe-

ment was not willful.

Aerosonic appeals this latter finding, advising that we need not reach claims 3, 8, and

11 should we sustain the validity of claims 2

gation was stayed.

The district court found that Mr. De-Mayo, who testified at trial, was not aware of a need to direct the examiner to the '339 patent. Mr. DeMayo also testified that he did not believe that the '339 patent was relevant to the '114 invention due to the differences and significant drawbacks in the 339 design; this testimony was supported by other evidence of the differences and draw-backs of the '339 and other prior devices.

after it received written notice of infringement, as evidence that Acrosonic willfully disregarded or did not intend to respect the law. The devices that Acrosonic purchased

ate and meticulous copying of the Sensonics

and Aerosonic's delay of eight

device,

months before consulting patent

conuse

Sensonics states that the court clearly erred in failing to find that the infringement was willful, referring to Aerosonic's deliberlabelled with Sensonies' name. Sensonies states that the opinion of counsel that Aerosonic produced at trial was "protective" and

rom Budd Electronics and copied were all

was not a complete analysis, and that Aeronotice of Sensonics' patent was with knowledge and disregard of Sensonics' legal rights. indeed, the opinion of counsel makes no

sonic's continuing infringement after actual

[2] Aerosonic presses the argument that Sensonics did not seek reexamination of the 114 patent in light of the '339 patent until after expiration of the '114 patent. The '114 patent expired during the litigation. The diser requested reexamination of the '114 patent, but that Aerosonic did not mention the 339 patent in its reexamination papers. Indeed, Aerosonic's omission of the '339 patent from its reexamination request weighs heavtrict court observed that Aerosonic had earlilly against its argument that the '339 patent was material prior art.

precedent requires that these factors be considered. See Stratoflex v. Aeroquip Corp., 713 F.2d 1530, 1539, 216 USPQ 871, 879 (Fed. Cir. 1983) (evidence of objective considerations must always be taken into Although the opinion of Aerosonic's counsel is flawed, the issue of willfulness

mention of Aerosonic's copying and other objective indicia of unobviousness, although

> The burden of proof of inequitable conduct was upon Aerosonic. The factual predicates of both (1) a withholding of material

Corp., 767 F.2d 353, 867, 226 USPQ 402, 412 (Fed. Cir. 1985) (giving due deference to the trier's right to determine credibility and weight). The district court found that Aerosonic timely retained patent counsel was continued even after the '114 patent was confirmed on reexamination, this occurred four months before patent expiration, and Sensonics does not argue that this event of reversed. See King Instrument Corp. v. Otari and reasonably relied on counsel's opinion. Although it is relevant that the infringement Consultants. Ltd. v. Hollisler. 863 F.2d 867, 872, 9 USPQ2d 1384, 1389 (Fed. Cir. 1988), cert. denied, 490 U.S. 1067 (1989). There ity of the evidence, including the evidence of finding that intent to deceive or mislead the prior art and (2) the intent thereby to deceive the claims, must be shown by clear and convincing evidence. Kingsdown Medical was no evidence of culpable intent. The totalmislead the patent examiner into allowing good faith, well supports the district court's examiner was not shown.

Absent reversible error in the district court's findings and conclusion, we affirm the decision that there was not inequitable conduct before the patent office and that the 114 patent is enforceable.

itself signals willful infringement. On the whole we do not discern clear error in the district court's findings and conclusion on

the issue of willful infringement.

measure of damages, on the ground that the Sensonics appeals the district court's district court incorrectly assessed the num-

Aerosonic stipulated that it infringed

WILLFUL INFRINGEMENT

claims 2 and 7. The district court found that

Aerosonic also infringed claims 3, 8 and 11

sonics had proved (1) demand for the patent-ed product, (2) Sensonics' ability to meet USPQ 726 (6th Cir. 1978), were applied by the district court. The court found that Senthat demand, (3) the absence of acceptable issue at trial was not any of these criteria, but the total number of devices that were made by Aerosonic during the period between ac-tual notice of infringement on September 14, are summarized in Panduit Corp. v. Stahlin Bros. Fiber Works, Inc., 575 F.2d 1152, 197 non-infringing substitutes, and (4) the amount of lost profits per unit. The principal The criteria for lost profits damages that

ords after this litigation began. No manufacturing records were available for the relevant period except for a handwritten log book of serial numbers that covered the final six months preceding the expiration of the parent. This log commenced with number 21,267 in July 1991, after this suit had been pending for a year. It was the only remaining This issue arose because Aerosonic had apparently destroyed its manufacturing recevidence of the number of devices manufactured. Aerosonic argues that the burden of proof of damages is upon the patentee, and that since the number of devices manufactured could not be proved, the burden could not be met.

However, if actual damages can not be ascertained with precision because the evidence available from the infringer is inadequate, damages may be estimated on the best available evidence, taking cognizance of the reason for the inadequacy of proof and

### DAMAGES

ber of infringing devices made by Aerosonic

1989 and the expiration of the '114 patent on January 28, 1992.

raises questions of credibility as well as weight, and findings thereon are not readily

account)

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Sensonics Inc. v. Aerosonic Corp.

resolving doubt against the infringer. See Westinghouse Elec. & Mfg. Co., 225 U.S. 604, 620 (1912) (infringer bears the risk when precise calculation is not possible); Kori Corp. v. Wilco Marsh Buggies and Draglines. Inc., 761 F.2d 649, 655, 225 USPQ 985, 989 (Fed. Cir.) ("Fundamental principles of justice require us to throw any risk of uncertainty upon the wrongdoer raththan upon the injured party.") (citing Story Parchment Co. v. Paterson Parchment Co., 282 U.S. 555, 563 (1931)), cert. denied, 474 U.S. 902 (1985).

When the calculation of damages is imadverse inferences are appropriately drawn. See Lam. Inc. v. Johns-Manville Corp., 718 F.2d 1056, 1065, 219 USPQ 670, 675 (Fed. Cir. 1983) (any adverse consequences rest ords). When manufacturing records were peded by incomplete records of the infringer, tain lost profits is due to the infringer's failure to keep accurate or complete recdestroyed after the litigation commenced, may be drawn. Beatrice Foods Co. v. New England Printing and Lithographing Co., 899 F.2d 1171, 1176, 14 USPQ2d 1020, 1024 (Fed. Cir. 1990). upon the infringer when inability to ascerstrong inferences adverse to the infringer

months log was the only evidence of the number of devices manufactured. The log listed 1,037 vibrators to which serial numbers were given during the final six months of the life of the '114 patent. From this number the district court extrapolated back, the date of patent expiration. See Beatrice Foods, 899 F.2d at 1176, 14 USPQ2d at 1024 (damages appropriately measured by reconstruction when infringer had destroyed assuming an equal rate of production over the previous three years, to a total of 7,347 units manufactured between the date notice of infringement was given to Aerosonic and The district court found that the final six its invoices). Sensonics states that this exure because Aerosonic would reasonably be expected to have cut back on infringing production for the last few months of patent life, trapolation gives an unrealistically low figlitigation because this especially ongoing.

inferences be drawn. We agree that this to retain production records during the litigation period requires that strong adverse circumstance gives rise to a strong inference [4] Sensonics states that Aerosonic's failthat the records would have been unfavorable to Aerosonic. Lam v. Johns-Manville, 718 F.2d at 1065, 219 USPQ at 675. Indeed, Corp. v. Forest Hills Distribs., Inc., 692 F.2d 214, 218 (1st Cir. 1982), it is not as the court discussed in Nation-Wide Check

draw an adverse inference from "purpose. 'ul" action:

The adverse inference is based on two The evidentiary rationale is nothing more relevant to litigation and who proceeds to destroy the document is more likely to have been threatened by the document than the common sense observation that a party who has notice that a document is than is a party in the same position who rationales, one evidentiary and one not does not destroy the document. . . .

effects. Allowing the trier of fact to draw the inference presumably deters parties from destroying relevant evidence before it can be introduced at trial. The other rationale for the inference has to do with its prophylactic and punitive

citing 2 Wigmore on Evidence § 291, at 228 (Chadbourn rev. 1979).

and preserving records of the acts for which infringement had been charged, and it is appropriate that doubt be resolved against warrant adverse inferences, Sensonics does not suggest an alternative to the extrapola-Acrosonic. Although Acrosonic's actions Aerosonic had the clear duty of keeping tion method adopted by the district court. Thus the district court's extrapolation represents the best available reconstruction of the infringing activity, and is sustained

tion. Mr. Frank, who was the chief executive officer of Aerosonic during this period, testified that: "The serial number is put on the trapolated production of 7,347 units by 33% resulting from device repair or inefficiency in production of the vibrators." Sensonics states that this reduction is unsupported by evidence, and contrary to the great weight of inefficiency was reflected in the log showing The district court then reduced the ex-"in order to account for any duplication the evidence. We must agree. There was no evidence that device repair or production the serial number that was applied when the vibrator just before it is shipped, or before we put it into an indicator." On this procedure, any device repair or inefficiency in producvibrator was ready for shipment or installation would not be reflected in the serial number.

The Aerosonic log that was produced included repairs. It was the only record of repairs that was produced, and showed a repair rate of less than 0.4%, without a change of serial number for the repaired unit. Aerosonic did not establish that 33% or any other number of vibrators bore multiple serial numbers or were given new serial num-Further, if evidentiary imprecision is due to bers after they were returned for repair.

tainty is resolved against the wrongdoer. Koriv Wilco, 761 F.2d at 655, 225 USPQ at 989, Lam v. Johns-Manville, 718 F.2d at inadequacy of the infringer's records, uncer-1065, 219 USPQ at 675.

patent expiration. The statement of law is incorrect. The patent statute grants the patent statute grants the pating, using, or selling the patented subject matter. 35 U.S.C. § 271. Any of these activities during the patent term is an infringement of the patent right. sured not by the number of devices manufac-tured but by the number of devices sold before patent expiration, arguing that there is no record evidence of when the devices listed on the serial number log were sold, but Aerosonic states that damages are meathat they would have been sold mostly after

In the absence of any evidence that a significant number of the units to which a serial number was given were not separate manufactures, the district court's reduction of the total of 7,347 is clearly in error, and is reversed. Damages shall be paid on 7,347 units. The district court's decision is modined accordingly.

## ENHANCEMENT OF DAMAGES

abused its discretion in declining to enhance damages in accordance with 35 U.S.C. § 284 Sensonics states that the district court "the court may increase the damages up to The district court's decision with respect to the enhancement of damages will be susconclusion of law, clearly erroneous findings al Presto Industries, Inc. v. The West Bend Co., 76 F.3d 1185, 1193, 37 USPQ2d 1685, 1691 (Fed. Cir. 1996). [5] Section 284 does not state the circumtained unless it was based on an incorrect of fact, or a clear error of judgment. Nationthree times the amount found or assessed"

by the court. In Yarway Corp. v. Eur-Control USA, Inc., 775 F.2d 268, 277, 227 USPQ 352, 358 (Fed. Cir. 1985) the court explained that "enhancement of damages must be premised on willful infringement or Foods Co. v. New England Printing and Lithographing Co., 923 F.2d 1576, 1580, 17 USPQ2d 1553, 1556 (1991), enhanced damstances in which damages may be enhanced bad faith." See Shatterproof Glass Corp. v. Libbey-Owens Ford Co., 758 F.2d 613, 628, 225 USPQ 634, 644 (Fed. Cir.), cert. dismissed, 474 U.S. 976 (1985) (absent willful infringement, enhanced damages are usually not warranted). As elaborated in Beatrice ages are punitive; not compensatory. Ennancement is not a substitute for perceived

damages, but depends on a showing of willfuin infringement or other indicium of bad faith inadequacies in the calculation of actual warranting punitive damages.

damages. Since we have affirmed the finding that the infringement was not willful, we The district court deciined to enhance conclude that the district court acted within its discretion in declining to enhance damnges pursuant to § 284.

## PREJUDGMENT INTEREST

only under exceptional circumstances. 461 U.S. at 656-57, 217 USPQ at 1189. In Lummus Industries, Inc. v. D.M. & E. Corp., 862 F.2d 267, 274-75, 8 USPQ2d 1983, 1988 (Fed. Cir. 1988) the court held that "[t]o [6] The district court denied prejudgment interest, referring to the difficulty of its caltors Corp. v. Devex Corp., 461 U.S. 648, 217 USPQ 1185 (1983) that prejudgment interdeny prejudgment interest based on calculaculation. It was established in General Moest is the rule, not the exception. The Suprejudgment interest simply creates an injudgment interest in patent cases is withheld preme Court explained that the denial of centive to prolong litigation, and that pretion difficulties alone would be error."

that would make it unfair or inappropriate to We have been directed to no circumstance award prejudgment interest in this case. As of prejudgment interest serves to make the stated in General Motors v. Devex, an award patent owner whole, for damages properly include the foregone use of money of which the patentee was wrongly deprived. 461 U.S. at 655- 56, 217 USPQ 1188. Sensonies has included in its appellate brief a reasonable interest. Aerosonic has not challenged the rate or the arithmetic. The denial of prejudgment interest is reversed. On remand prejudgment interest, calculated in accordance with the Sensonics method, shall be methodology for calculation of prejudgment awarded.

## ATTORNEY FEES

They are not necessarily the same, although The district court did not separate, in its analysis, the criteria for enhancement of damages and for the award of attorney fees. the contributing factors often overlap.

[7] The award of attorney lees requires a threshold determination that this is an "exceptional case." 35 U.S.C. § 285. Bad faith and willful infringement are not the only criteria whereby a case may be deemed to be "exceptional," although when either is

ney fees, and may suffice to make a case exceptional under § 285. Spectra-Physics Inc. v. Coherent, Inc., 827 F.2d 1524, 1537, 3 USPQ2d 1737, 1746 (Fed. Cir.), cert. denied, 484 U.S. 954 (1987). See Kloster Speedsteel AB v. Crucible Inc., 793 F.2d 1565, 1580, 230 USPQ 81, 91 (Fed. Cir. 1986) (bad faith in pretrial and trial stages, by counsel or party, may render the case behavior are relevant to the award of attorpresent the requirement is more readily met itigation misconduct and unprofessional

damages, on the ground that the infringe-ment was not willful. However, the district court did not discuss whether there were rant the award of attorney fees. Sensonics device but was simply reselling it, citing Mr. Frank's letter of September 21, 1989 to Sensonics' counsel.2 Sensonics states that this The district court had declined to enhance actions of bad faith sufficient to meet the criterion of "exceptional case" and to warpoints to Acrosonic's pre-litigation false statement that it was not manufacturing the led it to sue Budd Electronics Corporation in Mr. Frank admitted that he ordered the copying and manufacture of the Sensonics the Eastern District of Pennsylvania. At trial exceptional under § 285

Ronald Miller was testifying to similar effect when Aerosonic's attorney McDonald passed him a note stating "DID NOT COPY" (plaintiff's exhibit 52). These procedures, of which Sensonics complains force-At his deposition Aerosonic employee fully, demean the litigation process.

1991, opposing Sensonics motion of October 15, 1991 to lift the stay for reexamination. Acrosonic assuring the court that the reexamination certificate had not issued, when it had issued on September 24, 1991. Before Sensonics also points to Aerosonic's motion to the district court filed October 22, this aspect was resolved another year passed, during which the patent expired.

Combined with these actions is the matter of manufacturing records. Aerosonic employees admitted that prior serial number tell what became of these logs. Aerosonic employees testified that they did not know how many devices were manufactured, even logs existed as late as eighteen months after the suit was filed, although no witness could

<sup>3</sup> Mr. Frank, then president, chief executive officer, and chief of engineering at Aerosonic, wrote: "Aerosonic Corporation purchased the vibrators from another company, and if you have some legal action, it would be against them." [signed] "Herbert J. Frank, President."

be produced. As we have discussed, there is records, and particularly after litigation has for purposes of warranty control. Employees responsible management positions testified that they did not have any records or any tured. The Supervisor of the Electronics Department, who personally kept the final sixmonths' log of serial numbers, testified that a previous log must have existed when she started the remaining log with serial number 21,267, but that it no longer existed or could an uncompromising duty to preserve relevant idea of how many devices were manufac-

behavior that exceeds reasonable litigation tactics. The district court made no findings concerning whether Aerosonic's actions were taken in good faith. Indeed, the court may consider the litigation actions of both sides in connection with § 285. See Beatrice Foods, 923 F.2d at 1580, 17 USPQ2d at 1556 (requiring findings of fact on the issue of bad faith). We remand for determination of whether there was bad faith or vexatious behavior or other grounds for deeming this case exceptional in terms of 35 U.S.C. §285. If so, the district court may determine it is the judicial duty to refuse to condone whether the award of attorney fees warranted.

# APPEAL OF HERBERT J. FRANK

dent, chief executive officer, and chief of engineering of Aerosonic. In 1990 he became rict court found Mr. Frank personally liable for inducement to infringe the '114 patent. and Mr. Frank continued as chief executive officer for an additional two years. The dischairman, his son-in-law became president, Mr. Frank was the founder, owner, presi-Mr. Frank appeals.

liability, is premised on a concept of tort-feasance whereby persons in authority and control may in appropriate circumstances be deemed liable for wrongdoing, when inducing direct infringement by another. See Water Technologies Corp. v. Calco. Ltd., 850 F.2d 660, 7 USPQ2d 1097 (Fed. Cir.) (finding liability for inducement based on specific circumstances of personal control of Calco's manufacture of the infringing products), cert. denied, 488 U.S. 968 (1988); Orthokin-7.2d 1565, 1578-79, 1 USPQ2d 1081, 1090 § 271(b), when applied to invoke personal etics, Inc. v. Safety Travel Chairs, Inc., 806 Fed. Cir. 1986) (corporate officers who actively aid and abet their corporation's infringement may be personally liable for in-The tort of "inducement" under 35 U.S.C ducing infringement).

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[8] Mr. Frank testified that he did not have the authority to control or discontinue production of the device after he became aware of Sensonics' patent rights or as the litigation progressed. The district court did not believe this statement. We do not discern for the weight of evidence was strongly contrary to this testimony. In the absence of clear error in this credibility determination, reversible error, the district court's ruling that Mr. Frank is liable for inducement to infringe, and jointly and severally liable for the judgment, is affirmed.

#### Summary

The district court's rulings of validity, enforceability, and infringement of the '114 patent are affirmed. Damages shall be measured on the basis of 7.347 infringing units. ment interest is reversed. On remand the damages award and interest shall be recalcuings on the issue of whether this is an exceptional case for the purposes of 35 U.S.C. § without enhancement. The denial of prejudglated, and the district court shall make find-

On Mr. Frank's individual appeal, the district court's judgment is affirmed. Costs to Sensonics.

AND REVERSED IN PART, AND REMANDED.

### Trademark Trial and Appeal Board Patent and Trademark Office

In re Broadway Chicken Inc. Decided March 26, 1996 Serial No. 74/326,626 Released April 4, 1996

## TRADEMARKS AND UNFAIR TRADE PRACTICES

1. Practice and procedure in Patent and Trademark Office — Ex parte proceedings — In general (§325.0501)

### AND PRACTICE JUDICIAL PROCEDURE

- Evidence - In general (4410.3701) Procedure

tion of "Broadway Chicken" mark for restaurant services, which consists of telephone Evidence offered by applicant for registraand business directory listings of restaurants

using térm "Broadway" in name, is suffiposes of present case but are maintained on ongoing basis for general business use, since multiple sources of third-party use evidence corroborate each other, and since Trademark Trial and Appeal Board takes more cient to establish prima facie that significant number of third parties use trade names or vices related thereto, since there is no bias in directories, which were not prepared for purfor restaurant services and for goods or serpermissive stance with respect to introduction of evidence in ex parte proceeding than service marks containing term "Broadway" in inter partes proceeding.

## TRADEMARKS AND UNFAIR TRADE **PRACTICES**

Likelihood of confusion - Evidence of 2. Infringement; conflicts between marks -- In general (§335.0303.01)

Evidence of widespread third-party use, in particular field, of marks containing certain shared term is competent to suggest that purchasers have been conditioned to look to other elements of marks as means of distinguishing source of goods or services in that

3. Infringement; conflicts between marks — Likelihood of confusion — Particular not likely Confusion (§335.0304.05) marks

Chicken" mark and registered marks "Broadway Pizza" and "Broadway Bar & Confusion is not likely to result from concemporaneous use of applicant's "Broadway Pizza" in connection with restaurant services, since applicant's evidence of widespread third-party use of trade names and marks containing term "Broadway" for restaurant services, closely related goods and services, and unrelated goods and services, viewed together with differences in marks and geographic significance of term "Broadway," is sufficient in ex parte proceeding to warrant finding that confusion is not likely.

application for trademark registration (Zhaleh S. Khabiri, examining attorney; R. Ellsworth Williams, managing attorney). Appeal from final refusal of intent-to-use

Application of Broadway Chicken Inc., no. 74/326,626, filed October 28, 1992, for for restaurant services. From linal refusal of registration of mark "Broadway Chicken, registration, applicant appeuls. Reversed.

Before Rice, Hanak, and Hohein, administrative trademark judges.